

IN THE CLAIMS:

1. (Currently Amended) An optical disk drive comprising:
a housing including a base portion;
an optical disk having information on at least one side; said optical disk mounted on a shaft for rotation;
a rotary actuator including a tracking arm and a focus arm having a first end and a second end, said first end pivotally mounted to said base portion for positioning the second end relative to the surface of the disk;
an optical pick up unit disposed on said second end of said actuator, said optical pick up unit comprising a light beam generating member, an objective lens and at least one light beam directing member.
2. (Original) The optical disk drive of Claim 1, wherein said rotary actuator pivots about a shaft.
3. (Original) The optical disk drive of Claim 1, wherein said rotary actuator comprises a knife edge pivot.
4. (Original) The optical disk drive of Claim 1, wherein said rotary actuator comprises a ball bearing pivot.
5. (Original) The optical disk drive of Claim 1, wherein said rotary actuator comprises a jewel bearing pivot.
6. (Original) The optical disk drive of Claim 1, wherein said rotary actuator comprises a flexure pivot.
7. (Original) The optical disk drive of Claim 1, wherein said rotary actuator comprises a bushing pivot.

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8. (Original) The optical disk drive of Claim 1, wherein said rotary actuator comprises a split band pivot.

9. (Original) The optical disk drive of Claim 1, wherein said rotary actuator comprises a torsional pivot.

10. (Currently Amended) The optical disk drive of Claim 1, wherein said rotary actuator moves in three dimensions relative to the surface of the disk.

11. (Canceled)

12. (Currently Amended) The optical disk drive of Claim 1 ~~Claim 11~~, wherein said focus arm comprises a voice coil motor which is substantially balanced relative to the axis of rotation for said focus arm.

13. (Currently Amended) The optical disk drive of Claim 1 ~~Claim 11~~, wherein said focus arm comprises a voice coil motor which is unbalanced relative to the axis of rotation for said focus arm.

14. (Currently Amended) The optical disk drive of Claim 1 ~~Claim 11~~, wherein said tracking arm moves substantially parallel to the surface of the disk and said focus arm moves said optical pick up unit in a direction substantially perpendicular to the surface of the disk.

15. (Original) The optical pick up unit of Claim 14, wherein said tracking arm comprises a voice coil motor having a moving magnet.

16. (Original) The optical pick up unit of Claim 15, wherein said moving magnet is on the same side of the rotational axis for said tracking arm as is said optical pick up unit.

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17. (Original) The optical pick up unit of Claim 15, wherein said moving magnet is on the opposite side of the rotational axis for said tracking arm as is said optical pick up unit.

18. (Original) The optical pick up unit of Claim 14, wherein said tracking arm comprises a voice coil motor having a moving coil.

19. (Original) The optical pick up unit of Claim 18, wherein said moving coil is on the same side of the rotational axis for said tracking arm as is said optical pick up unit.

20. (Original) The optical pick up unit of Claim 18, wherein said moving coil is on the opposite side of the rotational axis for said tracking arm as is said optical pick up unit.

21. (Original) The optical pick up unit of Claim 14, wherein said focus arm comprises a voice coil motor having a moving magnet.

22. (Original) The optical pick up unit of Claim 21, wherein said moving magnet is on the same side of the rotational axis for said focus arm as is said optical pick up unit.

23. (Original) The optical pick up unit of Claim 21, wherein said moving magnet is on the opposite side of the rotational axis for said focus arm as is said optical pick up unit.

24. (Original) The optical pick up unit of Claim 14, wherein said focus arm comprises a voice coil motor having a moving coil.

25. (Original) The optical pick up unit of Claim 24, wherein said moving coil is on the same side of the rotational axis for said focus arm as is said optical pick up unit.

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26. (Original) The optical pick up unit of Claim 24, wherein said moving coil is on the opposite side of the rotational axis for said focus arm as is said optical pick up unit.

27. (Original) The optical disk drive of Claim 1, wherein said rotary actuator is a single stage for tracking.

28. (Original) The optical disk drive of Claim 1, wherein said rotary actuator is a dual stage for tracking.

29. (Original) The optical pick up unit of Claim 13, where said focus arm voice coil motor is positioned proximate the center of percussion of said focus arm.

30. (Canceled)

31. (Canceled)

32. (Canceled)

33. (Currently Amended) In an optical disk drive including a housing having a base and cover, an optical disk mounted on a spindle for rotation relative to said base, data resident on the optical disk, a light emitting source for generating a light beam to read data from and write data to the disk, and an actuator for positioning an objective lens relative to the surface of the disk, the objective lens acting to direct the light beam to the disk, the improvement comprising:

the actuator being a rotary actuator and the light emitting source and the objective lens both positioned at the distal end of the rotary actuator; and

said actuator including a first arm to position the objective lens in two dimensions substantially parallel to the surface of the optical disk, and a second arm mounted to said first arm to position the objective lens in a third dimension substantially perpendicular to the surface of said optical disk.

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34. (Canceled)

35. (Original) The optical disk drive of Claim 33 further comprising a first pivot means for positioning said first arm and a second pivot means for positioning said second arm. *

36. (Original) The optical disk drive of Claim 35, wherein said first pivot means comprises a voice coil motor.

37. (Original) The optical disk drive of Claim 36, wherein said voice coil motor comprises a moving magnet.

38. (Original) The optical disk drive of Claim 37, wherein said moving magnet is disposed on the same side of the rotational axis for the first arm as is said light source and said objective lens.

39. (Original) The optical disk drive of Claim 37, wherein said moving magnet is disposed on the opposite side of the rotational axis for the first arm as is said light source and said objective lens.

40. (Original) The optical disk drive of Claim 36, wherein said voice coil motor comprises a moving coil.

41. (Original) The optical disk drive of Claim 40, wherein said moving coil is disposed on the same side of the rotational axis for the first arm as is said light source and said objective lens.

42. (Original) The optical disk drive of Claim 40, wherein said moving coil is disposed on the opposite side of the rotational axis for the first arm as is said light source and said objective lens.

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43. (Original) The optical disk drive of Claim 35, wherein said first pivot means comprises one of the group comprising a ball bearing pivot, jewel bearing pivot, a knife edge pivot, a flexure pivot, a bushing pivot, a split band pivot, and a torsion pivot.

44. (Original) The optical disk drive of Claim 35 wherein said second pivot means comprises a voice coil motor.

45. (Original) The optical disk drive of Claim 44, wherein said voice coil motor comprises a moving magnet.

46. (Original) The optical disk drive of Claim 45, wherein said moving magnet is disposed on the same side of the rotational axis for the second arm as is said light source and said objective lens.

47. (Original) The optical disk drive of Claim 45, wherein said moving magnet is disposed on the opposite side of the rotational axis for the second arm as is said light source and said objective lens.

48. (Original) The optical disk drive of Claim 44, wherein said voice coil motor comprises a moving coil.

49. (Original) The optical disk drive of Claim 48, wherein said moving coil is disposed on the same side of the rotational axis for the second arm as is said light source and said objective lens.

50. (Original) The optical disk drive of Claim 48, wherein said moving coil is disposed on the opposite side of the rotational axis for the second arm as is said light source and said objective lens.

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51. (Original) The optical disk drive of Claim 35, wherein said second pivot means comprises one of the group comprising a ball bearing pivot, a jewel bearing pivot, a knife edge pivot, a flexure pivot, a bushing pivot, a split band pivot, a torsion pivot.

52. (Currently Amended) The optical disk drive of Claim 33 ~~Claim 34~~, wherein the data on the disk is arranged in track and said first arm comprises a single stage member for coarse and fine tracking.

53. (Currently Amended) The optical disk drive of Claim 33 ~~Claim 34~~, wherein the data on the disk is arranged in track and said first arm comprises a dual stage member for coarse and fine tracking.

Please cancel Claims 54-88.

54.-88. (Canceled)

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